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## EUROPEAN PATENT APPLICATION

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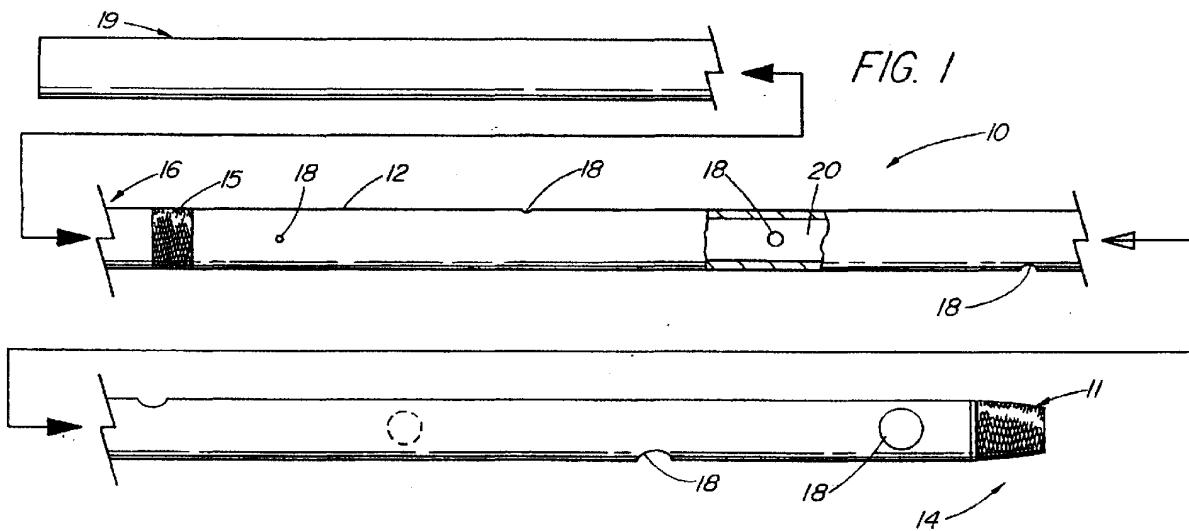
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### (54) A medical device for fluid delivery

(57) A method for predetermining the controlled and uniform discharge rate of a fluid from a single lumen tubular body having passageways radially extending through the wall of the tubular body has been developed and is described. The method involves predetermining such parameters as the transverse cross-sectional areas of the passageways extending through the wall of the tubular body, the spacing of the passageways, the pressure at each of the passageways, and the rate of flow

at each of the passageways. One specific preferred application of such a tubular body is an infusion catheter for delivering various fluids to designated areas of the body for either a therapeutic treatment and/or diagnostic purposes. For example, such a catheter may be adapted to deliver controlled and uniform quantities of thrombolytic agents, chemotherapeutic agents as well as such diagnostic agents as fluorescent dyes and radioactive agents.





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## EUROPEAN SEARCH REPORT

Application Number

EP 97 30 2755

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)						
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim							
X	WO 94 07549 A (TARGET THERAPEUTICS INC) * page 6, line 6 - line 28; figures *	1-9	A61M25/00						
X	US 4 173 981 A (MORTENSEN) * column 3, line 48 - column 4, line 13; figures *	1-9							
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)						
			A61M						
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>17 December 1997</td> <td>Clarkson, P</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	17 December 1997	Clarkson, P
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THE HAGUE	17 December 1997	Clarkson, P							
<p>CATEGORY OF CITED DOCUMENTS</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; vertical-align: top;">           X : particularly relevant if taken alone            Y : particularly relevant if combined with another document of the same category            A : technological background            O : non-written disclosure            P : intermediate document         </td> <td style="width: 33%; vertical-align: top;">           T : theory or principle underlying the invention            E : earlier patent document, but published on, or after the filing date            D : document cited in the application            L : document cited for other reasons            .....            &amp; : member of the same patent family, corresponding document         </td> </tr> </table>				X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document				
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